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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/026,941	12/27/2001	Jung Taeck Yer	049128-5029	7312	
9629	7590 02/26/2004		EXAMINER		
MORGAN	LEWIS & BOCKIUS	MAI, ANH T			
1111 PENNSYLVANIA AVEN WASHINGTON, DC 20004		٧W	ART UNIT	PAPER NUMBER	
***************************************	101., 20 2000		2832		
			DATE MAIL ED: 02/26/2004	DATE MAIL ED: 02/26/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

				<i>[</i> *.
		Application No.	Applicant(s)	
Office Action Summary		10/026,941	YER ET AL.	
		Examiner	Art Unit	
		Anh T. Mai	2832	
Period fo	The MAILING DATE of this communication reply	n appears on the cover sheet	with the correspondence address	
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATION Insions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication is period for reply specified above is less than thirty (30) days be period for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, by reply received by the Office later than three months after the led patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may on. , a reply within the statutory minimum of the period will apply and will expire SIX (6) Mestatute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication (35 U.S.C. § 133).	ation.
Status				
1) 又	Responsive to communication(s) filed on	04 February 2004.		
•		This action is non-final.		
3)	, , , , , , , , , , , , , , , , , , ,		atters, prosecution as to the merit	s is
٠,٥	closed in accordance with the practice un			
Disposit	ion of Claims			
4)⊠	Claim(s) 1-18 is/are pending in the applic	ation.		
,—	4a) Of the above claim(s) 1-9,18 and 19 is	s/are withdrawn from conside	ration.	
5)□	Claim(s) is/are allowed.			
'=	Claim(s) 10-17 is/are rejected.			
-	Claim(s) is/are objected to.			
•	Claim(s) are subject to restriction	and/or election requirement.		
Applicat	ion Papers			
9)	The specification is objected to by the Exa	aminer.		
,—	The drawing(s) filed on is/are: a)		to by the Examiner.	
,—	Applicant may not request that any objection			
	Replacement drawing sheet(s) including the o			21(d).
11)	The oath or declaration is objected to by t			
Priority :	under 35 U.S.C. § 119			
12)	Acknowledgment is made of a claim for fo	oreign priority under 35 U.S.C	. § 119(a)-(d) or (f).	
	☐ All b)☐ Some * c)☐ None of:			
,	1. Certified copies of the priority docu	ments have been received.		
	2. Certified copies of the priority docu		Application No	
	3. Copies of the certified copies of the			;
	application from the International B			
* (See the attached detailed Office action for		ot received.	
Attachmer	nt(s)			•
_	ce of References Cited (PTO-892)	4) 🔲 Intervie	w Summary (PTO-413)	
2) Noti	ce of Draftsperson's Patent Drawing Review (PTO-94	Paper N	lo(s)/Mail Date	
	mation Disclosure Statement(s) (PTO-1449 or PTO/ er No(s)/Mail Date	SB/08) 5) Notice 6	of Informal Patent Application (PTO-152)	
		, — -		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over figures 1&2 of prior art submitted by applicant in view of Ishiwaki [US 5847518].

The prior art shown a transformer having two E-cores 4a, 4b each having center core passing through the center of bobbin and the side portions surrounding sides of the bobbin. The prior art discloses the claimed invention except for the coil winding having no protrusion member.

Ishiwaki discloses a transformer including a bobbin wound with coil 4 and core 5 introduced into bobbin which has a coil winding part without protrusion member and the coil continuous wound from on side of the winding part to the other side [figures 4-5]. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have a bobbin without protruding member as taught by Ishiwaki to the prior art. The motivation would have been to provide continuous winding for the coil. Therefore, it would have been obvious to combine Ishiwaki with the prior art.

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3. Claims 11-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over the prior art [figures 1-2] in view of Ishiwaki as applied to claim 1 above, and further in view of Kawano et al. [US 5736917].

The prior and Ishiwaki disclose the invention as claimed as cited above except for the coil wound in zigzag basis in an oblique direction. Kawano discloses the winding which has insulating sheet covering outer surface of the wire, wound in zigzag basis in an oblique direction from one side of winding part to the other side such that number of windings is periodically increased in vertical direction [figure 10; col 7, line 4-7 and column 10, lines 54-57]. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to apply the winding as taught by Kawano to Ishikawa. The motivation would have been to prevent the winding from collapsing and assure the withstand voltage required for winding of the transformer. Therefore, it would have been obvious to combine Kawano with the prior art in view of Ishiwaki.

With respect to claim 14, Kawano's winding having winding block as shown in figure 6.

Response to Arguments

4. Applicant's arguments with respect to claims 10-17 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh T. Mai whose telephone number is 571-272-1995. The examiner can normally be reached on 5/4/9 Schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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ANH MAI

PRIMARY EXAMINER